



IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Daniel R. Blakley

Confirmation No.:

Application No.: 10/632,290

Examiner:

Filing Date: July 31, 2003

Group Art Unit:

Title: MULTIPLE-TRANSDUCER SENSOR SYSTEM AND METHOD WITH SELECTIVE
ACTIVATION AND ISOLATION OF INDIVIDUAL TRANSDUCERS

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97 (c) together with either a:
☐ Statement under 37 CFR 1.97(e), or
☐ a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:
☐ Statement under 37 CFR 1.97(e)(1) or (2), and
☐ a \$180.00 fee set forth in 37 CFR 1.17(p).
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

- ☒ I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450. Date of Deposit: Apr. 9, 2004

OR

- ☐ I hereby certify that this paper is being transmitted to the Patent and Trademark Office facsimile number _____ on _____ Number of pages: _____

Typed Name: Christie A. Doolittle

Signature: Christie A. Doolittle

Respectfully submitted,

Daniel R. Blakley

By Walter W. Karnstein

Walter W. Karnstein

Attorney/Agent for Applicant(s)

Reg. No. **35,565**

Date: **Apr. 9, 2004**

Telephone No.: **(503) 224-6655**

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200206025-1

APPLICATION NO.

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Daniel R. Blakley

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GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A	3,582,838	06/01/1971	DeVries	
	1B	3,983,424	09/28/1976	Parks	
	1C	4,055,072	10/25/1977	Fletcher et al.	
	1D	4,788,466	11/29/1988	Paul et al.	
	1E	5,201,215	04/13/1993	Granstaff et al.	
	1F	5,448,126	09/05/1995	Eda et al.	
	1G	5,477,098	12/19/1995	Eguchi et al.	
	1H	6,144,332	11/07/2000	Reindl et al.	
	1I	2002/0011761	01/31/2002	Takeuchi et al.	
	1J				
	1K				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L	JP 55-40967	03/22/1980	Toshiba Corp.		X
	1M	WO 01/02857	01/11/2001	Cambridge University		
	1N					
	1O					
	1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	1Q	"In Situ Interfacial Mass Detection With Piezoelectric Transducers", Michael D. Ward et al., Science, Vol. 249, Issue 4972, August 31, 1990, pp. 1000-1007
	1R	"A Novel Immunosensor for Herpes Viruses", Bernd Konig et al., Analytical Chemistry, Vol. 66, No. 3, February 1, 1994, pp. 341-344
	1S	"Piezoelectric Mass-Sensing Devices as Biosensors - An Alternative to Optical Biosensors?", Andreas Janshoff et al., The Quartz-Crystal Microbalance in Life Science, Amer. Chem. Int. Ed. 2000, 39, pp. 4004-4032

EXAMINER

DATE CONSIDERED

PATENT APPLICATION

Sheet 2 of 2

FORM PTO-1449

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	2A				
	2B				
	2C				
	2D				
	2E				
	2F				
	2G				
	2H				
	2I				
	2J				
	2K				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	2L					
	2M					
	2N					
	2O					
	2P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	2Q	"'Hearing' Bond Breakage, Measurement of Bond Rupture Forces Using a Quartz Crystal Microbalance", F. N. Dultsev et al., Langmuir 2000, 16, pp. 5036-5040
	2R	"Listening for Viral Infection", Erica Ollmann Saphire et al., Nature Biotechnology, September 2001, Vol. 19, pp. 823-824
	2S	"Direct and Sensitive Detection of a Human Virus by Rupture Event Scanning", Matthew A. Cooper et al., Nature Biotechnology, September 2001, Vol. 19, pp. 833-837

EXAMINER

DATE CONSIDERED